

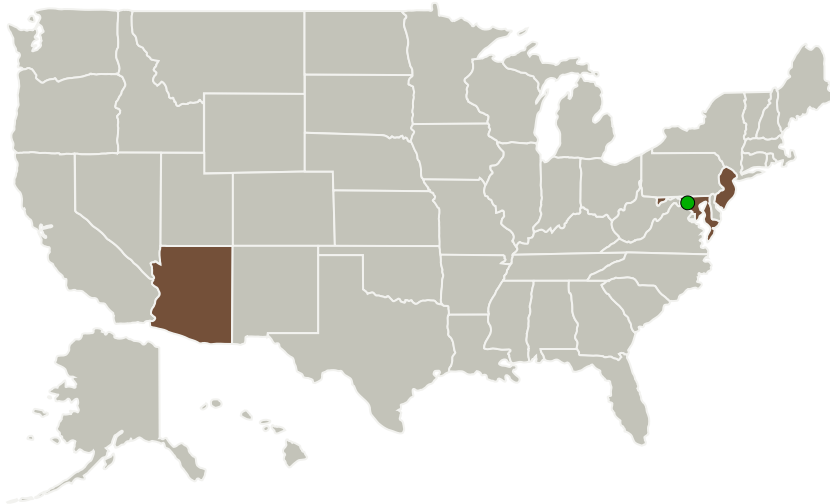



## Si-Based Lab-on-A-Chip Integrated Photonic Spectrometer, Phase I

Completed Technology Project (2018 - 2019)



## Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Structured Materials Industries, Inc.	Lead Organization	Industry	Piscataway, New Jersey
Arizona State University-Tempe(ASU)	Supporting Organization	Academia	Tempe, Arizona
 Goddard Space Flight Center(GSFC)	Supporting Organization	NASA Center	Greenbelt, Maryland

## Primary U.S. Work Locations

Arizona	Maryland
New Jersey	

## Organizational Responsibility

**Responsible Mission Directorate:**

Space Technology Mission Directorate (STMD)

**Lead Organization:**

Structured Materials Industries, Inc.

**Responsible Program:**

Small Business Innovation Research/Small Business Tech Transfer

## Project Management

**Program Director:**

Jason L Kessler

**Program Manager:**

Carlos Torrez

**Principal Investigator:**

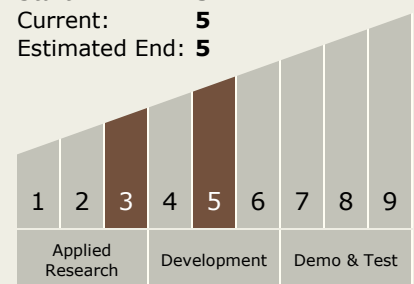
Arul Arjunan

## Technology Maturity (TRL)

Start: 3

Current: 5

Estimated End: 5



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## Project Transitions

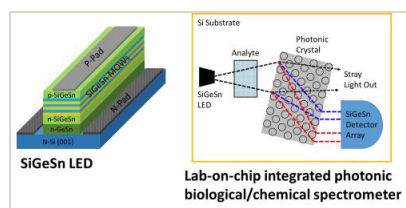
**July 2018:** Project Start

**August 2019:** Closed out

### Closeout Documentation:

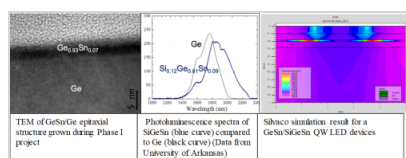
- Final Summary Chart(<https://techport.nasa.gov/file/137903>)

## Images



### Briefing Chart Image

Si-Based Lab-on-A-Chip Integrated Photonic Spectrometer, Phase I (<https://techport.nasa.gov/image/136223>)



### Final Summary Chart Image

Si-Based Lab-on-A-Chip Integrated Photonic Spectrometer, Phase I (<https://techport.nasa.gov/image/134902>)

## Technology Areas

### Primary:

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.1 Detectors and Focal Planes

## Target Destinations

The Moon, Mars, Others Inside the Solar System